

Date Opened: 20 May 2013

Job #: 784
Project: Long Cargo Basket
Type: AS350/AS355

Approval: SH08-16
Drawing List: DCL784-3, Rev. 3


Fabrication and Assembly Drawing(s)	Description
78410, Rev. 1	Basket Ass'y
78411, Rev. 2	Basket Body Ass'y
78412, Rev. 1	Basket Lid Ass'y
84255, Rev. 0	Handle Installation
84261, Rev. 0	Handle Bar Ass'y
84262, Rev. 0	Handle Bracket Ass'y
70405, Rev. 1	Lid Step Modification

Complete material tracking information on attached pages.

Work Order pre-completion Inspection:

Project is on Approval Limitation Record:	Y ✓
Document Control List revision level matches (or exceeds) STC:	Y ✓
Drawings revision levels match Document Control List:	Y ✓
Purchase order or Work order source is recorded for each part/ass'y:	Y ✓
Tests and inspections specifically called out on drawings are complete:	Y ✓
Release tags associated with all fabricated parts are attached:	Y ✓
All mounting hardware and supplies are included:	Y ✓

List all non-conformities raised: _____

Inspector Signature: 

Date: 22 May 2013

Drawing: **78410** Revision 1
 Assembly: **78410-01** Cargo Basket Ass'y (Quick-Release, Long, 93.25" long)

Qty Per	Part #	Description	Material	P.O./W.O.	Checked
1 Total	78410-01	Cargo Basket Assembly			
. 1	78411-01	Basket Body Assembly	Below		
. 1	78412-01	Basket Lid Assembly	Below		
. 1	84255-01	Handle Bar Installation	Below		
. 1	36280-01	Brace Assembly	9-2081 Brace	12059	
. 1	MS20001P4	Piano Hinge		12066	
. 1	78427-01	Placard	0.063 Sheet, 6061-T6 Aluminum	11102	
. 4	49205-14	Bumper	Argus Industries Bumper	11010	
. A/R	CR3213-5-02	Cherry Rivet		12055	
. 8	CR3523-5-02	Cherry Rivet		12087	
. 4	CR3213-4-02	Cherry Rivet		12032	
. 4	96710-01	Fitting	Alternate to Ancra 40088-14	WO2012-44	
. 8	NAS1149FO663P	Washer		12052	
. 1	AN3-15A	Bolt		12052	
. 1	AN3-17A	Bolt		12052	
. 3	NAS1149FO363P	Washer		12067	
. 2	AN970-3	Washer		12032	
. 2	MS21044N3	Nut		12032	

Processes	Per	Mat'ls Used	Inspection	Signature
Riveting	AC43.13-1B	CR Rivets		
Final Inspection	Drawing 78410			

Tag incomplete parts with Work Order # when stored between processes.

Tag complete parts / assemblies with Release Tag prior to storage.

Drawing: **78411** Revision 2
 Assembly: **78411-01** **Basket Body Ass'y (Quick-Release, Long, 93.25" long)**

Qty Per	Part #	Description	Material	P.O./W.O.	Checked
1 Total	78411-01	Basket Body Assembly			
. A/R		Tube	4130 Steel, 3/4" x 0.035 Sqr. Tube	12123	
. A/R		Tube	4130 Steel, 1/2" x 0.035 Sqr. Tube	12123	
. 4	76421-01	Hoop	4130 Steel, 1/2" x 0.035 Sqr. Tube	12123	
. 2	76423-07	Attachment Hoop			
. . 1	--	Tube	4130 Steel, 1/2" x 0.035 Sqr. Tube	12123	
. . 1	--	Tube	4130 Steel, 1" x 0.065 Sqr. Tube	12045	
. . 2	76423-06	Lug	1018 Mild Steel, 5/8" Dia.	12056	
. 1	36262-01	Handle Bracket Assembly	Below		
. 1	49215-01	Spacer	1018 Steel, 1/2" Rod	12056	
. A/R	3/4-16F	Mesh	Expanded carbon steel	12065	

Processes	Per	Mat'ls Used	Inspection	Signature
Welding	AMS 2685C	Welding Rod ER70S-2		
Powder Coat	Drawing 78411			
Final Inspection	Drawing 78411			



Tag incomplete parts with Work Order # when stored between processes.

Tag complete parts / assemblies with Release Tag prior to storage.

Drawing: **78412** **Revision 1**
Assembly: **78412-01** **Basket Lid Ass'y (Quick-Release, Long, 93.25" long)**

Qty Per	Part #	Description	Material	P.O./W.O.	Checked
1 Total	78412-01	Basket Lid Assembly			
. A/R		Tube	4130 Steel, 3/4" x 0.035 Sqr. Tube	12123	
. 1	49216-01	Spacer	1018 Steel, 1/2" Rod	12056	
. 1	36262-01	Upper Handle Bracket Assembly	Below		
. 1	36204-10	Placard Bracket	1018 Steel, 0.035" Sheet	9010	
. A/R	3/4-16F	Mesh	Expanded carbon steel	12065	

Processes	Per	Mat'ls Used	Inspection	Signature
Welding	AMS 2685C	Welding Rod ER70S-2		
Powder Coat	Drawing 78412			
Final Inspection	Drawing 78412			

Tag incomplete parts with Work Order # when stored between processes.

Tag complete parts / assemblies with Release Tag prior to storage.

Drawing: **84255** **Revision 0**
Assembly: **84255-01** **Handle Installation**

Qty Per	Part #	Description	Material	P.O./W.O.	Checked
1 Total	84255-01	Handle Installation			
. 1	84261-01	Handle Bar Assembly	Below		
. 2	84267-01	Bracket	Delrin, 3/4"	WO2012-36	
. 2	36278-01	Spring (1 left, 1 right)	304 Stainless, 1/16" Dia Music Wire	12033	
. 2	36275-01	Bushing	SAE 660 Bronze, 5/16" Dia	11030	
. 2	AN3-12A	Bolt		13017	
. 4	AN3-11A	Bolt		13017	
. 10	AN960-10	Washer		12132	
. 6	MS21044N3	Nut		12132	


Processes	Per	Mat'ls Used	Inspection	Signature
Final Inspection	Drawing 84255			

Tag incomplete parts with Work Order # when stored between processes.

Tag complete parts / assemblies with Release Tag prior to storage.

Drawing: **84261** **Revision 0**
Assembly: **84261-01** **Handle Bar Assembly**

Qty Per	Part #	Description	Material	P.O./W.O.	Checked
1 Total	84261-01	Handle Bar Assembly			
. 1	36277-01	Handle Bar	316 Stainless, 1.0 x 0.065 Rnd. Tube	13028	
. 2	84265-01	Lever	304 Stainless, 0.105 Sheet	10036	
. 2	36274-01	Bushing	304 Stainless, 7/16" x 0.065 Rnd. Tube	11057	
. 2	MS20615-4M3	Rivet		7039	

Processes	Per	Mat'ls Used	Inspection	Signature
Welding	AMS 2685C	Welding Rod ER308L		
Final Inspection	Drawing 84261			

Tag incomplete parts with Work Order # when stored between processes.

Tag complete parts / assemblies with Release Tag prior to storage.

Drawing: **84262** **Revision 0**
Assembly: **84262-01** **Handle Bracket Assembly**

Qty Per	Part #	Description	Material	P.O./W.O.	Checked
1 Total	84261-01	Handle Bracket Assembly			
. 4	84272-01	Bushing	4130 Steel, 5/16" x 0.058 Sqr. tube	11049	
. 4	36273-01	Lid Bracket	321 Stainless, 0.050 Sheet	10037	
. 2	36275-02	Support	304 Stainless, 5/16" Rod	11093	

Processes	Per	Mat'ls Used	Inspection	Signature
Welding	AMS 2685C	Welding Rod ER308L		
Final Inspection	Drawing 84262			<i>gc.</i>

Tag incomplete parts with Work Order # when stored between processes.


Tag complete parts / assemblies with Release Tag prior to storage.

Drawing: **70405** **Revision 1**
Assembly: **70405-01** **Lid Step Modification**

Qty Per	Part #	Description	Material	P.O./W.O.	Checked
1 Total	70405-01	Lid Step Modification			
. 10	70405-03	Tube	4130 Steel, ½" x 0.035 Sqr. Tube	12123	
. 1	70405-04	Tread Plate	3003 Aluminum Tread Plate, 0.063"	12118	
. A/R	CR3213-4-2	Cherry Rivet		12032	

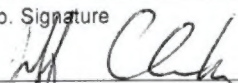
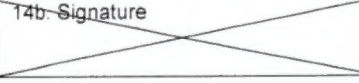
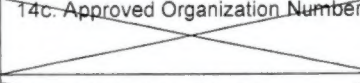

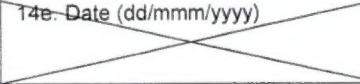
Note: Step is installed on all bays of lid.

Note: Remainder of assembly listed on drawing 78412

Processes	Per	Mat'ls Used	Inspection	Signature
Welding	AMS 2685C	Welding Rod ER70S-2		
Final Inspection	Drawing 70405			

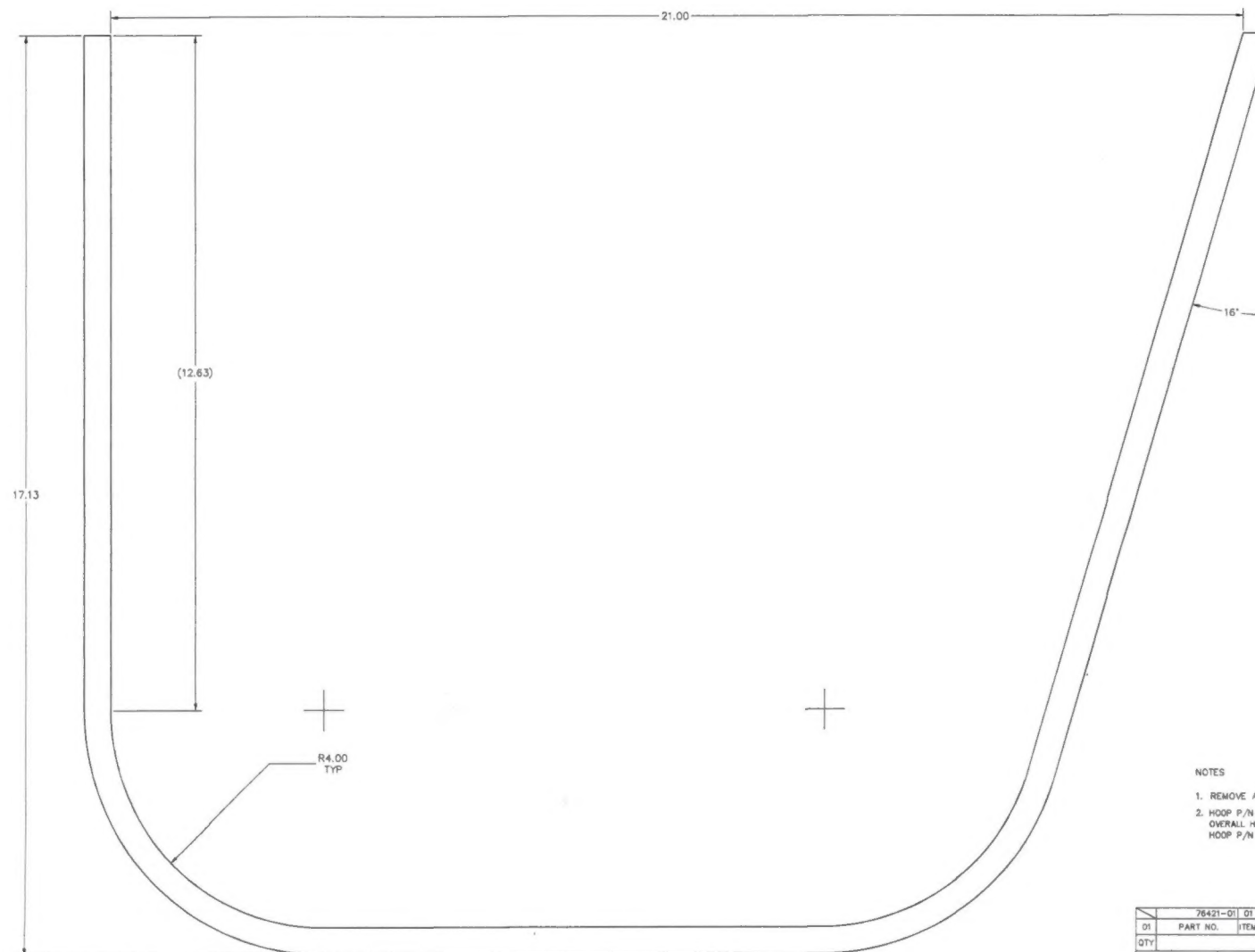
Tag incomplete parts with Work Order # when stored between processes.

Tag complete parts / assemblies with Release Tag prior to storage.

1. Approving Civil Aviation Authority/Country Transport Canada		2. AUTHORIZED RELEASE CERTIFICATE FORM ONE			3. Form Tracking No.	
4. Organization Name and Address AERO Design Ltd. – 2013 39th Avenue NE, Calgary, Alberta, T2E 6R7					5. Work Order/Contract/Invoice WO2013-21	
6. Item	7. Description	8. Part Number	9. Qty.	10. Serial/Batch No.	11. Status/Work	
	Long Cargo Basket	78410-01	1	78401-40	New	
12. Remarks Modified with walkway on lid IAW DCL704						
13a. Certifies that the items identified above were manufactured in conformity to:			14a. <input type="checkbox"/> CAR 571.10 Maintenance Release <input type="checkbox"/> Other regulation specified in block 12			
<input checked="" type="checkbox"/> Approved design data and are in condition for safe operation. <input type="checkbox"/> Non approved design data specified in block 12.			Certifies that unless otherwise specified in block 12, the work identified in block 11 and described in block 12, has been performed in compliance with the Canadian Aviation Regulations.			
13b. Signature		13c. Approved Organization Number		14b. Signature		14c. Approved Organization Number
		AMF 73-04				
13d. Name		13e. Date (dd/mmm/yyyy)		14d. Name		14e. Date (dd/mmm/yyyy)
Jeff Clarke		31 May 2013				
Installer Responsibilities						
This certificate does not constitute authority to install. Installers working in accordance with the national regulations of a country other than that specified in block 1 must ensure that their regulations recognize certifications from the country specified. Statements in blocks 13a or 14a do not constitute installation certification. In all cases, the technical record for the aircraft must contain an installation certification issued in accordance with the applicable national regulations before the aircraft may be flown.						

400-1200

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REV.	DESCRIPTION OF CHANGE	INITIALS	DATE
01	INITIAL ISSUE	RM	24 JAN 08



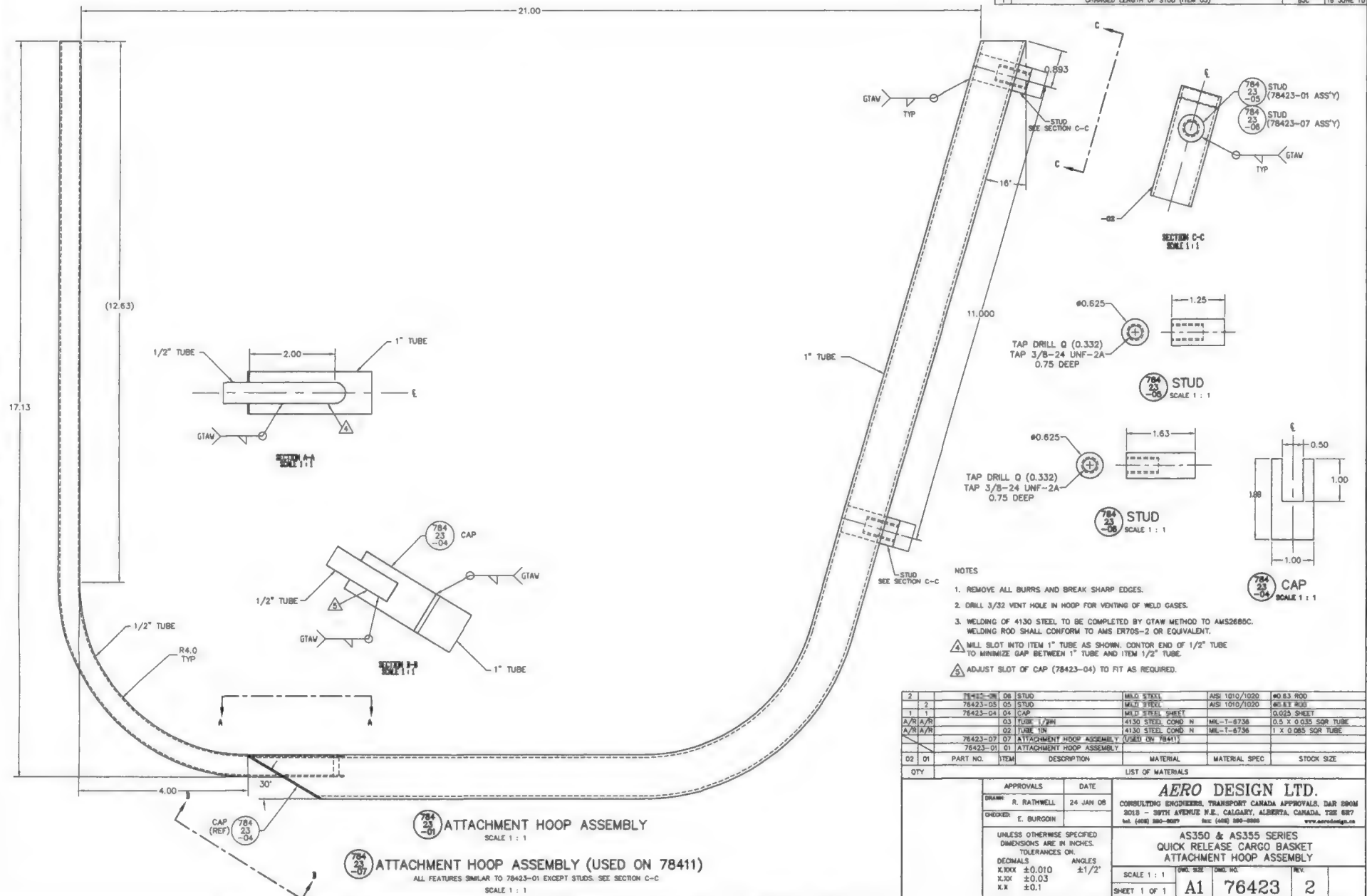
NOTES

1. REMOVE ALL BURRS AND BREAK SHARP EDGES.
2. HOOP P/N 50510-01 IS USED AS A DIRECT REPLACEMENT FOR HOOP P/N 76421-01.
OVERALL HEIGHT IS REDUCED BY 1.38 IN. THERE ARE NO OTHER CHANGES.
HOOP P/N 50510-01 IS USED ON BASKET S/N 76401-01, 76401-02, 76401-01, 77601-01, 77602-01 ONLY.

01 HOOP
SCALE 1 : 1

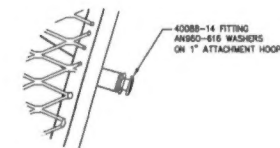
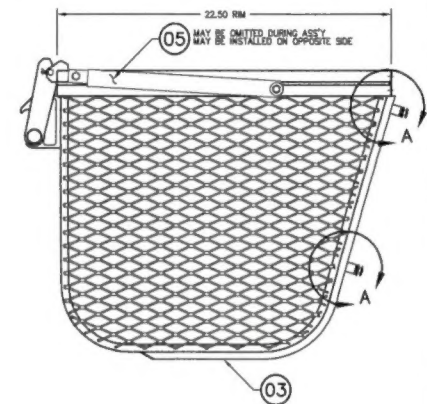
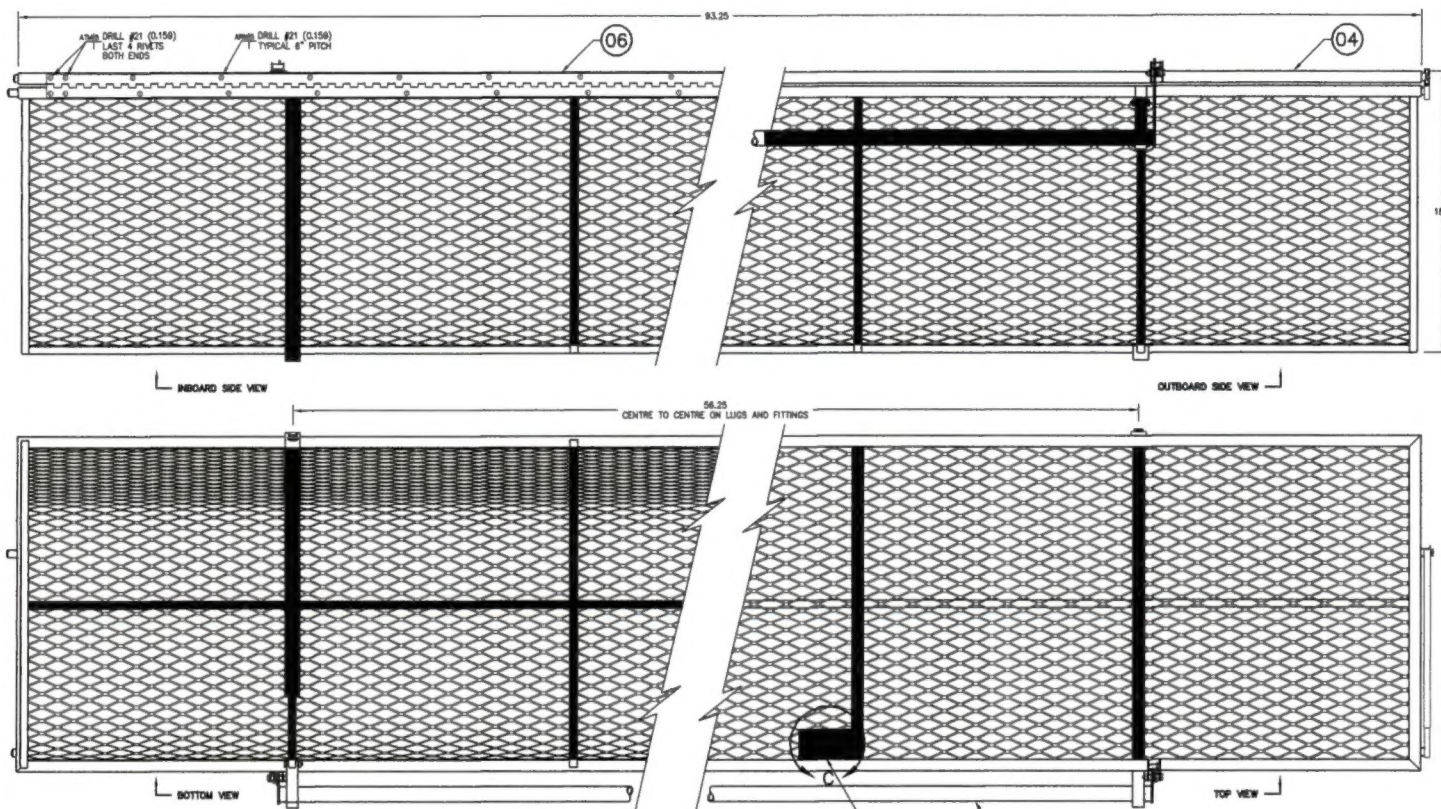
76421-01 01 HOOP		4130 STEEL COND. N		MIL-1-6736		0.5 X 0.035 SQR TUBE	
01	PART NO.	ITEM	DESCRIPTION	MATERIAL	MATERIAL SPEC	STOCK SIZE	
QTY	LIST OF MATERIALS						
APPROVALS			DATE		AERO DESIGN LTD. CONSULTING ENGINEERS, TRANSPORT CANADA APPROVALS, DAR 5901 2015 - 39TH AVENUE N.E., CALGARY, ALBERTA, CANADA, T2E 6R7 tel: (403) 880-8087 fax: (403) 350-8938 www.aerodesign.ca		
DRAWN: R. RATHMELL			24 JAN 08				
CHECKED: E. BURTON							
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ON:							
DECIMALS			ANGLES		EUROCOPTER AS350 & AS355 SERIES QUICK RELEASE CARGO BASKET HOOP		
X.XXX ±0.010			±1/2°				
X.XX ±0.03							
X.X ±0.1							
SCALE 1 : 1			DWG. SIZE	DWG. NO.	REV.		
SHEET 1 OF 1			A1	76421	0		

REV.	DESCRIPTION OF CHANGE	INITIALS	DATE
0	INITIAL ISSUE	RR	24 JAN 08
1	ADDED 78423-07 ASSY AND 78423-08 PART	RR	05 MAR 08
2	CHANGED LENGTH OF STUD (ITEM 05)	BUC	19 JUNE 10



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REV.	DESCRIPTION OF CHANGE	INITIALS	DATE
0	INITIAL ISSUE		
1	CHANGED HANDLE CONFIGURATION, REMOVED ALTERNATE BASKET	BJC	27 JAN 10



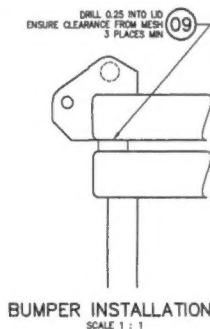
DETAIL A
SCALE 1 : 2
TYPICAL FRONT AND REAR

NOTE:
1. ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. DIMENSIONS OF COMPONENTS AND COMPLETE ASSEMBLY ARE DETERMINED IN PREVIOUS STEPS.

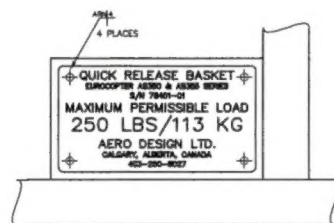
01 CARGO BASKET ASSEMBLY

A/R	ITEM	DESCRIPTION	MATERIAL	MATERIAL SPEC	STOCK SIZE
4	AN600-616	WASHER			
4	4008B-14	FITTING	ANORA		
8	CR3523-5-02	CHERRY RIVET			
A/R	CR3213-5-02	CHERRY RIVET			
4	CR3213-4-02	CHERRY RIVET			
3	49205-14	BLUMPER	ARGUS INDUSTRIES		
1	78427-01	06 PLACARD			
1	84255-01	07 HANDLE BAR INSTALLATION			
A/R	MS20001P4	08 PLANO HINGE			82 LONG
1	36200-01	03 BRACE ASSEMBLY			
1	78412-01	04 LID ASSEMBLY			
1	78411-01	03 BASKET BODY ASSEMBLY			
1	78410-01	02 CARGO BASKET ASSEMBLY			
01	PART NO.	ITEM	DESCRIPTION	MATERIAL	MATERIAL SPEC STOCK SIZE
QTY					

LIST OF MATERIALS



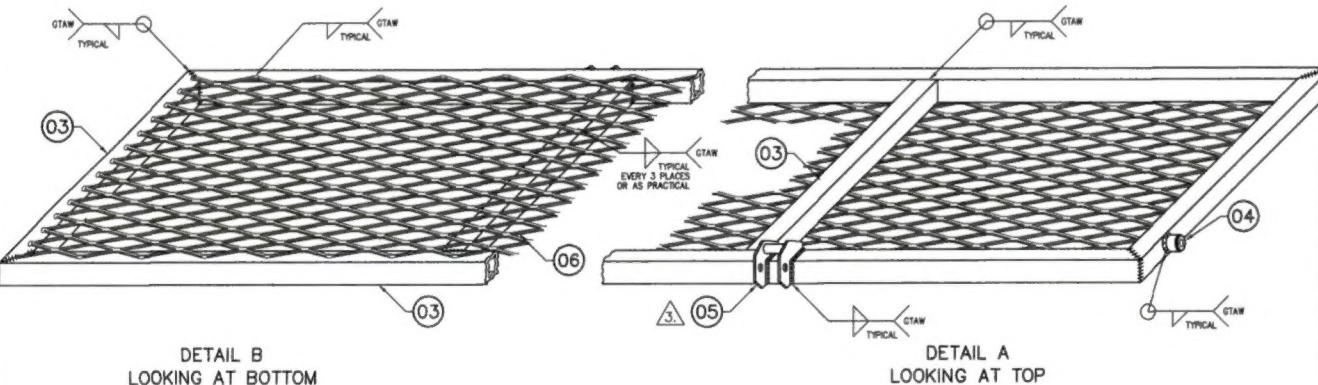
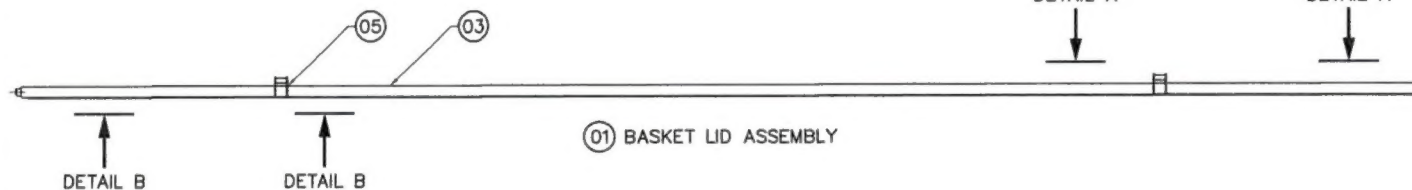
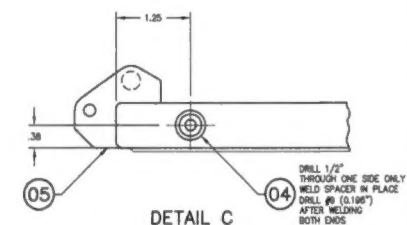
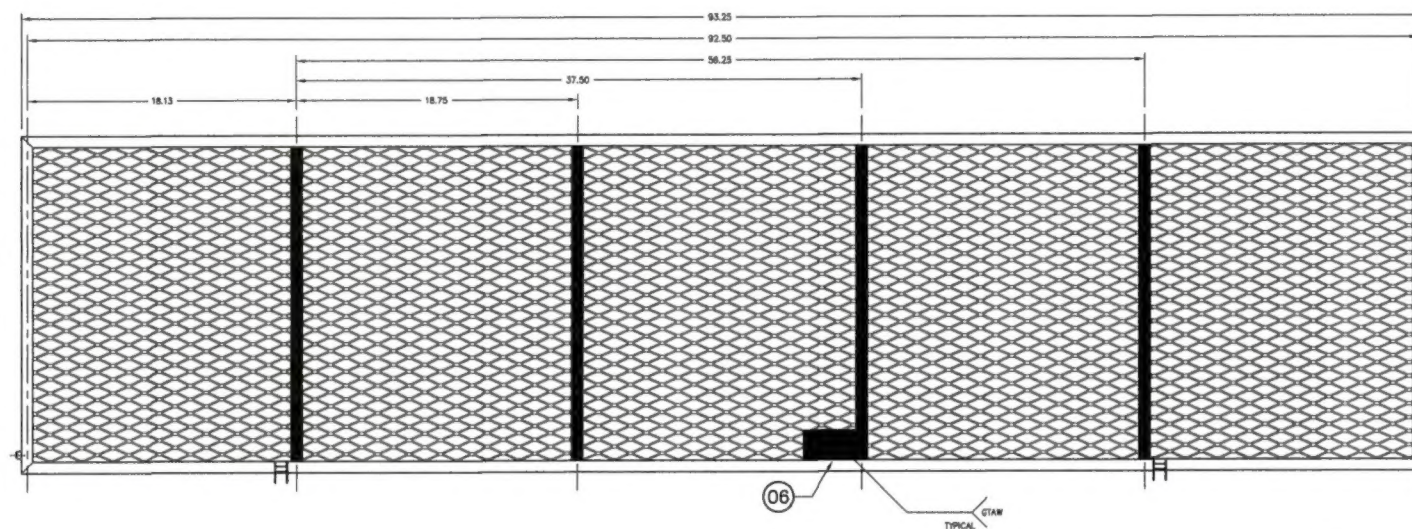
BUMPER INSTALLATION
SCALE 1 : 1



DETAIL C
SCALE 1 : 1
LOOKING AT PLACARD BRACKET

BASIC CODE	DASH NO. FOR DIAMETER	APPROVALS	DATE
REF. HAS 523	H=HFD. HEAD NEAR SIDE F=HFD. HEAD FAR SIDE	DRW: R. RATHWELL	19 FEB 08
C=COUNTERSINK D=DIMPLE DGT=# OF SHEETS TO BE DIMPLED	DASH NO. FOR LENGTH	CHECKED: E. BURGOIN	
BASIC CODES: BJ=MS20470AD BB=MS20426AD BRV=CR3213 ATM=CR3523	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ON: DECIMALS X.XXX ±0.010 X.XX ±0.03 X.X ±0.1	<p>AERO DESIGN LTD. CONSULTING ENGINEERS, TRANSPORT CANADA APPROVALS, DAR 890M 2013 - 50TH AVENUE N.E., CALGARY, ALBERTA, CANADA, T2E 6R7 Tel: (403) 860-8007 Fax: (403) 860-8003 www.aerodesign.ca</p> <p>EUROCOPTER AS350 & AS355 SERIES QUICK RELEASE SKI BASKET BASKET ASSEMBLY</p>	
	<p>INSTALL NEW RIVET REMOVE/REPLACE RIVET EXISTING RIVET</p>	<p>SCALE 1 : 4 SHEET 1 OF 1</p>	<p>REV. 1</p>

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REV.	DESCRIPTION OF CHANGE	INITIALS	DATE
0	INITIAL ISSUE		
1	CHANGED HANDLE BRACKETS, REMOVE ALTERNATE LID	SLC	28 JAN 10



- NOTES:
1. REMOVE ALL BURRS AND BREAK SHARP EDGES
 2. WELDING OF 4130 STEEL TO BE COMPLETED BY GTAW METHOD TO AMS 2885C.
 3. WELDING ROD SHALL CONFORM TO ER70S-2 OR EQUIVALENT.
 4. INSTALL ITEM 5 (HANDLE BRACKET ASSEMBLY) IN ACCORDANCE WITH AERO DESIGN LTD. DRAWING 36262 TYP 2 PLACES.
 5. WHEN ASSEMBLY IS COMPLETE, FILL ALL VENT HOLES WITH ROSETTE WELD.
 6. THOROUGHLY CLEAN AND POWDER COAT BASKET SUB-ASSEMBLES PRIOR TO ASSEMBLY.

A/R	3/4-16F	07	MESH				
1	36204-10	08	PLACARD BRACKET				
1	84268-01	03	UPPER HANDLE BRACKET ASSY				
2	49218-01	04	SPACER				
A/R	03	SQUARE TUBE	4130 STEEL COND. N. MIL.-T-8736	3/4 X 0.035 SQR. TUBE			
	02						
	78412-01	01	BASKET LID ASSEMBLY				
PART NO.	ITEM	DESCRIPTION	MATERIAL	MATERIAL SPEC	STOCK SIZE		
QTY							

APPROVALS	DATE	AERO DESIGN LTD.					
DRAWN: R. RATHWELL	19 FEB 08	CONSULTING ENGINEERS, TRANSPORT CANADA APPROVALS, DAR 890M					
CHECKED: E. BURGON		3015 - 59TH AVENUE N.E., CALGARY, ALBERTA, CANADA, T2B 6B7					
		Tel: (403) 850-8897 Fax: (403) 850-8883 www.aerodesign.ca					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.		EUROCOPTER AS350 & AS355 SERIES					
TOLERANCES ON:		QUICK RELEASE CARGO BASKET					
DECIMALS		BASKET LID ASSEMBLY					
X.XXX ±0.010		SCALE 1 : 4					
X.XX ±0.03		SHEET 1 OF 1					
X.X ±0.1		A1 78412 1					

REV.	DESCRIPTION OF CHANGE	INITIALS	DATE
0	INITIAL ISSUE		
1	INCREASE LOAD TO 250 LBS / 113 KG	BJC	JAN 27/10

NOTES

- ENGRAVE 0.007 DEEP AS FOLLOWS:
"QUICK RELEASE BASKET" - 0.125 HIGH
"EUROCOPTER AS350 & AS355 SERIES" - 0.080 HIGH
"S/N 78401-XX" - 0.080 HIGH
"MAXIMUM PERMISSIBLE LOAD" - 0.125 HIGH
"250 LBS/113 KG" - 0.200 HIGH
"AERO DESIGN LTD." - 0.125 HIGH
"CALGARY, ALBERTA, CANADA" - 0.080 HIGH
"403-250-8027" - 0.080 HIGH

DRILL #30 (0.129)
4 PLACES



01 PLACARD

78427-01	01	PLACARD	6061-T6 ALUMINUM	QQ-A-250/11	0.063 SHEET
PART NO.	ITEM	DESCRIPTION	MATERIAL	MATERIAL SPEC	STOCK SIZE

LIST OF MATERIALS

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	DRAWN: R. RATHWELL		18 FEB 08						
	CHECKED: E. BURGAIN				EUROCOPTER AS350 & AS355 SERIES QUICK RELEASE CARGO BASKET PLACARD				
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ON:								
	DECIMALS X.XXX ±0.010 X.XX ±0.03 X.X ±0.1		ANGLES ±1/2°						
		SCALE 1 : 1		DWG. SIZE A1		DWG. NO. 78427		REV. 1	
		SHEET 1 OF 1							